

Title (en)

Apparatus for winding a roving applied to a roving frame

Title (de)

Vorrichtung zum Aufspulen eines Vorgarns in einer Vorspinnmaschine

Title (fr)

Dispositif d'enroulement d'une mèche dans un banc à broches

Publication

EP 0406176 B1 19991020 (EN)

Application

EP 90810490 A 19900628

Priority

JP 17071189 A 19890630

Abstract (en)

[origin: EP0406176A2] In a roving winding apparatus applied to a roving frame provided with a plurality of draft parts (7) and corresponding bobbin wheels (21), a bobbin shaft (23) for driving the bobbin wheel (21), a bobbin rail (20) whereon the bobbin shaft (23) is rotatably mounted horizontally along the longitudinal direction thereof, a lifting motion mechanism (56-59) for lifting the bobbin rail (20), and a main motor (1) for driving the draft parts (7) at a predetermined rotation speed, wherein the bobbin shaft (23) is driven under a controlled condition created by a servomotor (SM) to follow a digital signal output from the rotation angle detecting device (PG) applied to the common bottom front roller (8) of the draft parts (7), in an adjusted optimal condition under the control of a computer system (100), incorporated with the lifting motion of the bobbin rail (20).

IPC 1-7

D01H 1/34

IPC 8 full level

D01H 1/30 (2006.01); **D01H 1/34** (2006.01); **D01H 1/36** (2006.01)

CPC (source: EP US)

D01H 1/34 (2013.01 - EP US); **Y10T 74/19433** (2015.01 - EP US)

Cited by

CN104562314A; CN103409859A; EP0526404A1; US5304900A; EP0570002A1; US5463557A

Designated contracting state (EPC)

CH DE IT LI

DOCDB simple family (publication)

EP 0406176 A2 19910102; EP 0406176 A3 19910724; EP 0406176 B1 19991020; DE 69033329 D1 19991125; DE 69033329 T2 20000224; JP 2804789 B2 19980930; JP H0340819 A 19910221; US 5341633 A 19940830

DOCDB simple family (application)

EP 90810490 A 19900628; DE 69033329 T 19900628; JP 17071189 A 19890630; US 98427892 A 19921201